P 'ENT COOPERATION TREA '

From	n the RNATIONAL SEA	ARCHING AUTH	ORITY			
To:	:			•	PCT	
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
				Date of mailing (day/month/year) see	o form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below		
ľ	national application TAJS2004/02391		International filing date (c 22.07.2004	day/month/year)	Priority date (day/month/year) 13.08.2003	
International Patent Classification (IPC) or both national classification and IPC C07C19/08, C07C19/10, C07C21/18						
	icant 3U SERVICES,	INC.	·			
1.	This opinion contains indications relating to the following items:					
	⊠ Box No. I	Basis of the op	lnion			
		Priority		- 1	au e e e e e e e e e e e e e e e e e e e	
	☐ Box No. III			ard to novelty, inventive	e step and industrial applicability	
	Box No. IV Lack of unity of invention					
	☑ Box No. V	applicability; cit	ement under Rule 43 <i>bis</i> tations and explanations	.1(a)(i) with regard to i	novelty, inventive step or industrial	
	☐ Box No. VI	Certain docume				
	☐ Box No. VII	Certain defects	in the international app	lication		
	☐ Box No. VIII	Certain observa	ations on the internation	al application		
2.						
If a demand for International preliminary examination is made, this opinion will usually be considered to written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not appet the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed international Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					owever, this does not apply where	
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invisubmit to the IPEA a written reply together, where appropriate, with amendments, before the expiration months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the prwhichever expires later.						
	For further options, see Form PCT/ISA/220.					
3.	For further details, see notes to Form PCT/ISA/220.					
			•			
Name and mailing address of the ISA: Authorized Officer						

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Cooper, S

Telephone No. +49 89 2399-8323

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

_	Во	X N	o. I Basis of the opinion			
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
		This opinion has been established on the basis of a translation from the original language into the following language—, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	Wit	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:					
			a sequence listing			
			table(s) related to the sequence listing			
	b. format of material:					
			In written format			
			in computer readable form			
	c. t	c. time of filing/furnishing:				
			contained in the international application as filed.			
	í		filed together with the international application in computer readable form.			
	1		furnished subsequently to this Authority for the purposes of search.			
3.		co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.			
4.	Additional comments:					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-83

inventive step (IS)

Yes: Claims

No: Claims

1-83

Industrial applicability (IA)

Yes: Claims

1-83

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/023917

D1: WO 03/029173 A (PCBU SERVICES INC) 10 April 2003 (2003-04-10)

D2: EP-A-0 434 409 (DU PONT) 26 June 1991 (1991-06-26)

D3: EP-A-0 253 410 (AUSIMONT SPA) 20 January 1988 (1988-01-20)

D4: US-B1-6 291 729 (RAO V N MALLIKARJUNA) 18 September 2001 (2001-

09-18)

Section V.

- The claims lack novelty as detailed in the search report or are considered to relate to subject-matter which is trivial in view of the novelty destroying embodiments of the prior art.
- 2). Where conditions presently claimed include reaction conditions of the prior art, but the co-formation of particular products, e.g. olefins is not specifically mentioned in the prior art, the burden of proof is considered to lie with the applicant that such products are not also formed in the prior art.
- 3). Reactions presently claimed catalysed by a mixture of Cu and Pd have been performed in the prior art: see the 6th to 8th entries on p.39 of D1 and p.9, lines 31-35 of D2. Claims relating to such reactions are therefore not novel.
- 4). Inter alia run no.1 in column 3 of D4 relates to a presently claimed reaction catalysed by Pd and conducted in a Nickel tube. This is considered novelty destroying for the Pd/Ni catalysed embodiment of present claim 7.
- 5). Present reactions catalysed by a combination of Cu and Pd are suggested by D1 inter alia as detailed above, p.9, lines 31-35 of D2 and claim 1 of D3. Insofar as particular ratios of these elements are to be used as a catalyst, it is not apparent how this is inventive.
- 6). Combinations of Ni and Pd as catalyst in the present type of reactions are suggested by claim 1 of D3. It is not apparent how these are presently inventive.